

**PRICE BID
(PART-B)
BOQ for SITC of the AC Work
(REVISED)**

Sl. No	Description	Qty.	Unit	Rate	Amount
	HIGH SIDE WORKS				
A	Supply of DIGITAL Scroll Compressor based Energy Efficient Variable Refrigerant Flow (VRF-System) Outdoor Unit comprising of Oil & Gas balance system, having suitable microprocessor controller, sub cooling circuit, Condenser fan motor, Liquid Injection Valve including structural requirement for installation of outdoor units, along with Environment Friendly R 410A gas charging and other accessories complete as required.				
1	Capacity: Not less than 165 TR for 2 nd floor and 3 rd floor lab & offices to be catered by 4 units (minimum)	1	Job.		
2	Capacity: Not less than 125 TR for 2 nd floor and 1 st floor Clusters to be catered by 4 units (minimum)	1	Job		
B	Supply of VRF Indoor Units as per specification. The indoor unit should have independent Electronic Expansion valve to control the refrigerant flow rate in respond to variations of Air-Conditioning load of the room.				
1.	1.0 Tr Cassette	24	No.s		
2.	2.0 Tr Cassette	5	Nos.		
3.	1.5 Tr Cassette	27	No.s		
4	1.5 TR Hide away unit	5	Nos.		
5	8 TR Ducted Unit with 3 or 4 row coil (No. of row to be mentioned specifically.....row)	24	Nos.		
6	5 TR Ducted Unit	2	Nos.		
7	4 TR Ducted Unit	1	Nos.		
8	3 TR Ducted unit	5	Nos		

LOW SIDE WORKS			
1	Installation of VRF Outdoor Unit with MS Stand/ Structure on roof top		
a	Capacity: 165 TR or above for 2 nd floor and 3 rd floor lab & offices to be catered by 4 units (minimum) as per item no. A (1)	1	Lot
b	Capacity: 125 TR or above for 2 nd floor and 1 st floor Clusters to be catered in 4 units (minimum) as per item no. A (2)	1	Lot.
2	Installation of VRF Indoor Unit		
	1.0 Tr Cassette	24	No.s
	2.0 Tr Cassette	5	Nos.
	1.5 Tr Cassette	27	No.s
	1.5 TR Hide away unit	5	Nos.
	8 TR Ducted Unit	24	Nos.
	5 TR Ducted Unit	2	Nos.
	4 TR Ducted Unit	1	Nos.
	3 Tr Ducted unit	5	No.s
	2.5 Tr Ducted unit	19	No.s
	2 Tr Ducted unit	4	No.s
3	Installation, Testing & Commissioning of 2 nos. Ducted AC unit of 4.50 TR each capacity as mentioned in item no. F (i) i/c supplying and laying of copper refrigerant pipes of suitable dia, required Nitrile Rubber insulation, gas charging, power cables between IDU & ODU etc complete as required.	2	Sets
4	Installation, Testing & Commissioning of 2 nos. Ducted AC unit of 4.75 TR each capacity as mentioned in item no. F (ii) i/c supplying and laying of copper refrigerant pipes of suitable dia, required Nitrile Rubber insulation, gas charging, power cables between IDU & ODU etc complete as required.	2	Sets
5	SITC of suitable sizes HD Copper Refrigerant Piping with Nitrile Rubber insulation etc for liquid/gas line to complete in all respects:		
a.	Refrigerant piping including insulation, accessories and fittings as required between IDU and ODU including pressure testing, evacuation and charging of refrigerant for the Lab and the offices for second and third floors including supplying /laying and interconnections of cables between the indoor and out door units as will be required	1	Lot

b.	Refrigerant piping including insulation, accessories and fittings as required between IDU and ODU including pressure testing, evacuation and charging of refrigerant for the Computer Clusters for second and first floors. This also includes interconnecting cabling between the indoor and out door units as will required.	1	Lot		
6	Providing G.I. Ducting including dampers, turning vanes, splitter dampers etc. as required as per specification				
a	24 G (0.63 mm)	500	Sq. M		
b	22 G (0.80 mm)	100	Sq. M		
7	Providing Duct Thermal Insulation with 13 mm thick self adhesive type nitrile rubber wrapped with 26G Aluminium Foil.	300	Sq. M		
8	Providing Duct Thermal Insulation with 19 mm thick self adhesive type nitrile rubber raped with 26G Aluminium Foil.	400	Sq. M		
9	Providing powder coated continuous linear grill with flanges all around	15	Sq.M		
10	Providing Powder Coated Extruded Aluminum Air Grills/Diffusers with Volume Control Damper	5	Sq. M		
11	Providing Powder Coated Extruded Aluminum Air Grills/Diffusers without Volume Control Damper	5	Sq. M		
12	Providing Flexible Duct Connections	61	Nos.		
13	Providing HDPE Drain piping				
A	32 mm Dia	200	Rmt		
B	25 mm Dia	100	Rmt		
14	Providing Under deck insulation with 19 mm Nitrile rubber	1500	Sq. M		
Sub Total for Installation & Ancillary Items with Tax					
TOTAL VALUE (PART-I).....		Rs.			
15.	Charges for 5-years Comprehensive Annual Maintenance Contract (AMC) of the entire system including all spares and consumables after successful completion of warranty period (Detailed maintenance schedule to be submitted with the technical bid)				
	1st term AMC	@ Rs.			
	2nd term AMC	@ Rs.			
	3rd term AMC	@ Rs.			
	4th term AMC	@ Rs.			
	5th term AMC	@ Rs.			
TOTAL (PART-II)		Rs.			
GRAND TOTAL (PART-I+PART-II)		Rs.			

Note:

- i. During evaluation of tender both Part-I (i.e. SITC of VRF AC System i/c TFA) and Part-II (i.e. 5-Years post warrantee comprehensive AMC of the VRF system under Part-I) shall be accounted together for selection of the bidders.
- ii. In the evaluation process of the tender, no extra weightage shall be given for offering any items / equipments etc. above the minimum capacity specified in the BOQ. However, offer for below the minimum capacity specified in the BOQ will not be considered.

(S. BOSE)
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